Attorney Docket: RAL920010013US1/2063P

Amendments to the Claims

This listing of the claims will replace all prior versions and listings of claims in the present application.

Listing of Claims

- 1. (Cancelled)
- 2. (Cancelled)
- 3. (Cancelled)
- 4. (Cancelled)
- 5. (Currently Amended) The A method of claim 4 for compressing data for transmission using asynchronous transfer mode (ATM), the data including a plurality of segments, each of the plurality of segments including a first end and a second end, the method comprising the steps of:

representing the first end of a segment of the plurality of segments with a partition compression code word, the segment being at least one of an ATM cell, an ATM PDU, and an IP packet, the first end being a boundary of the ATM cell, the ATM PDU, or the IP packet; and compressing a remaining portion of the segment,

wherein the partition compression code word represents a partition command sequence,

and

wherein the representing step further includes the step of:

providing a compound compression code word to represent the partition command sequence and another portion of the segment, the partition command sequence representing the first end of the segment.

- 6. (Cancelled)
- 7. (Cancelled)
- 8. (Previously Presented) A method for compressing data for transmission using asynchronous transfer mode (ATM), the data including a plurality of segments, each of the plurality of segments including a first end and a second end, a dictionary being used in compressing the data, the method comprising the steps of:

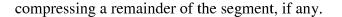
representing the first end of a segment of the plurality of segments with a partition compression code word, the partition compression code word representing a partition command sequence, the segment being at least one of an ATM cell, an ATM PDU and an IP packet, the first end being a boundary of the ATM cell, the ATM PDU or the IP packet;

adding bytes to a string including the command sequence representing the first end of the segment until the string does not have a match in the dictionary;

adding a code word to the dictionary, the code word including the partition command sequence as a root, the code word representing the string if the string is obtained in a first iteration;

utilizing the code word in the dictionary to represent the string if the string is not obtained in the first iteration;

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- 9. (Cancelled)
- 10. (Cancelled)
- 11. (Cancelled)
- 12. (Cancelled)
- 13. (Cancelled)
- 14. (Currently Amended) The A system of claim 13 for compressing data for transmission using asynchronous transfer mode (ATM), the data including a plurality of segments, each of the plurality of segments including a first end and a second end, the system comprising:

means for representing the first end of a segment of the plurality of segments with a partition compression code word, the segment being at least one of an ATM cell, an ATM PDU and an IP packet, the first end being a boundary of the ATM cell, the ATM PDU or the IP packet; and

means for compressing a remaining portion of the segment,

wherein the partition compression code word represents a partition command sequence,

and

wherein the representing means further includes means for:

providing a compound compression code word to represent the partition command sequence and another portion of the segment, the partition command sequence representing the first end of the segment.

- 15. (Cancelled)
- 16. (Cancelled)
- 17. (Previously Presented) A system for compressing data for transmission using asynchronous transfer mode (ATM), the data including a plurality of segments, each of the plurality of segments including a first end and a second end, a dictionary being used in compressing the data, the system comprising:

means for representing the first end of a segment of the plurality of segments with a partition compression code word representing a partition command sequence, the segment being at least one of an ATM cell, an ATM PDU and an IP packet, the first end being a boundary of the ATM cell, the ATM PDU or the IP packet;

means for adding bytes to a string including the first end of the segment until the string does not have a match in the dictionary;

means for adding a code word to the dictionary, the code word including the partition command sequence as a root, the code word representing the string if the string is obtained in a first iteration;

means for utilizing the code word in the dictionary to represent the string if the string is not obtained in the first iteration;

means for compressing a remainder of the segment, if any.

18. (Cancelled)

19. (Cancelled)

20. (Previously Presented) A computer-readable medium containing a program for

compressing data for transmission using asynchronous transform mode (ATM), the data

including a plurality of segments, each of the plurality of segments including a first end and a

second end, a dictionary being used in compressing the data, the program including instructions

for:

representing the first end of a segment of the plurality of segments with a partition

compression code word, the partition compression code word representing a partition command

sequence, the segment being at least one of an ATM cell, an ATM PDU and an IP packet, the

first end being a boundary of the ATM cell, the ATM PDU or the IP packet;

adding bytes to a string including the first end of the segment until the string does not

have a match in the dictionary;

adding a code word to the dictionary, the code word including the partition command

sequence as a root, the code word representing the string if the string is obtained in a first

iteration;

utilizing the code word in the dictionary to represent the string if the string is not obtained

in the first iteration;

compressing a remainder of the segment, if any.

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- 21. (Cancelled)
- 22. (Cancelled)